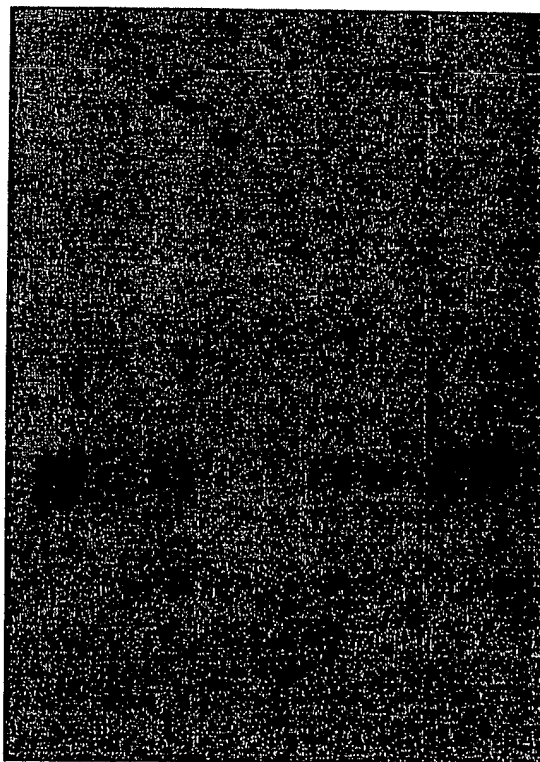


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FIG. 1A

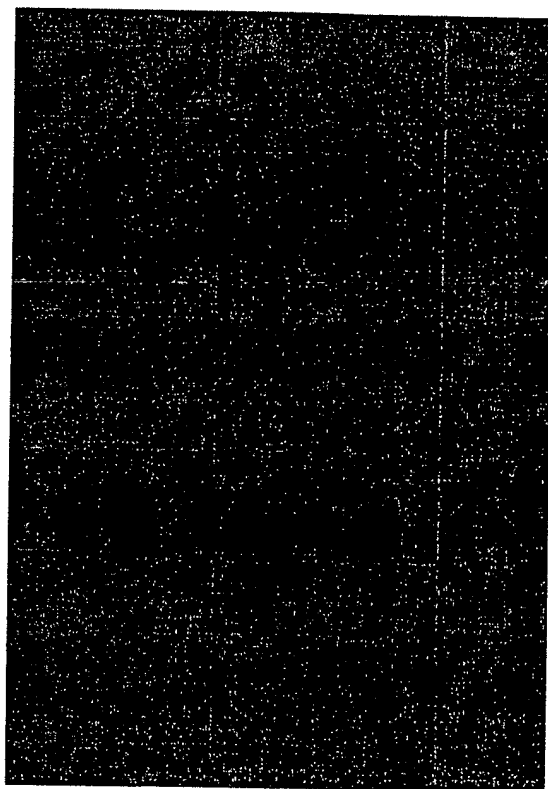


- 28S

- 18S

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FIG. 1B



- 28S

- 18S

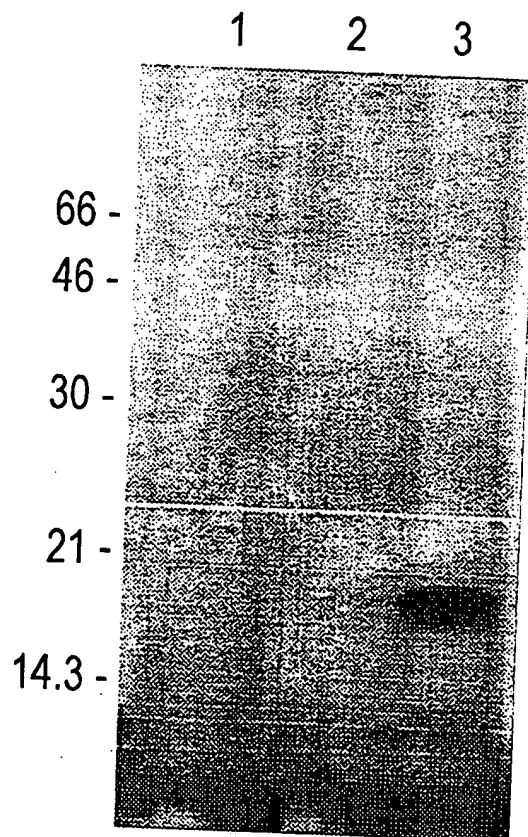


FIG. 2

1 CTGGCTGCTGTGGAGTTTGTGACATACTAGGTGACACCCTTGGAGTCACTTC
53 TCTTCAACTCCAGCTTAGAAGTGCCTGCCTGGCTCAGGGTCTGCACTGCAGCCTACTCCT
113 TGCTTCAGGGCCTGACTGCAACGCCAAAGCCTATCCTATAGCGGCAGCGCCAGCAGCCAC
173 TCAAACCAGCCACAGCTCCCCGGCAACCGAACCATGAACACCGAAATGTATCAGACCCCC
MetAsnThrGluMetTyrGlnThrPro
233 ATGGAGGTGGCGGTCTATCAGCTGCACAATTTCTCCACCTCCTTCTTTTCTTCTGCTT
MetGluValAlaValTyrGlnLeuHisAsnPheSerThrSerPhePheSerSerLeuLeu
293 GGAGGGGATGTGGTTTCCGTTAAACTGGATAACAGTGCCTCCGAGCCAGTGTGGTGGCC
GlyGlyAspValValSerValLysLeuAspAsnSerAlaSerGlyAlaSerValValAla
353 CTAGACAACAAGATTGAGCAGGCCATGGACCTCGTGAAGAACCACCTGATGTACGCTGTG
LeuAspAsnLysIleGluGlnAlaMetAspLeuValLysAsnHisLeuMetTyrAlaVal
413 AGAGAGGAGGTGGAGGTCTTAAAGGAGCAGATTTCGTGAGCTGCTTGAGAAGAACTCCCAG
ArgGluGluValGluValLeuLysGluGlnIleArgGluLeuLeuGluLysAsnSerGln
473 CTGGAGCGCGAGAACACCCTCCTGAAGACGCTGGCAAGCCCCGAGCAACTGGAAAAGTTCC
LeuGluArgGluLeuThrLeuLeuLysThrLeuAlaSerProGluGlnLeuGluLysPhe
533 CAGTCCCGGCTGAGCCCTGAAGAGCCAGCACCTGAAGCCCCAGAAACCCCGAAACCCCG
GlnSerArgLeuSerProGluGluProAlaProGluAlaProGluThrProGluThrPro
593 GAAGCCCCTGGTGGTTCTGCGGTGTAAGTGGCTCTGTCCTTAGGGTGGGCAGAGCCACAT
GluAlaProGlyGlySerAlaVal *
653 CTTGTTCTACCTAGTTCTTTCCAGTTTGTGTTTTGGCTCCCCAAGGGTCATCTCATGTGGA
713 GAACTTTACACCTAACATAGCTGGTGCCAAGAGATGTCCCAAGGACATGCCCATCTGGGT
773 CCACTCCAGTGACAGACCCCTGACAAAGAGCAGGTCTCTGGAGACTAAGTTGCATGGGGC
833 CTAGTAACACCAAGCCAGTGAGCCTGTCTGTCCACGGGCCCTGGGGGCTCCAGGGCTG
893 GGCAACTTAGTTACAGCTGACCAAGGAGAAAGTAGTTTGGAGATGTGATGCCAGTGTGCT
953 CCAGAAAGTGAAGGGGTCTGTTTTTCATTTCCATGGACATCTTCCACAGTTTCACTGA
1013 CAATGACTGTTCCATGAAGAAGCCACTTGTGTTCTAAGCAGAAGCAACCTCTCTCTTCT
1073 TCCTCTGTCTTTTCCAGGCAGGGGCAGAGATGGGAGAGATTGAGCCAAATGAGCCTTCTG
1113 TTGGTTAATACTGTATAATGCATGGCTTTGTGCACAGCCCAGTGTGGGGTTACAGCTTGG
1193 GGATGACTGCTTATAAAGTTCTGTTTGGTTAGTATTGGCATCGTTTTTCTATATAGCCAT
1253 AATGCGTATATATACCCATAGGGCTAGATCTATATCTTAGGGTAGTGATGTATACATATA
1313 CACATACACCTACATGTTGAAGGGCCTAACCCAGCTTTGGGAGTACTGACTGGTCTCTTAT
1373 CTCTTAAAGCTAAGTTTTTGAAGTGTGCTAATTTACCAAATTGATCCAGTTTGTCTTTAG
1433 ATTAAATAAGACTCGATATGAGGGAGGGAGGGAAGACAGCCTCACAAATGCGGCCACAG
1493 ATGCCTTGCTGCTGCAGTCCCTCCCTGATCTGTCCACTGAAGACATGAAGTCCCTCTTTGA
1553 ATGCCAAACCCACCATTGCTGGTGTGCTGACTACATAGAATGGGGTTGAGAGAAGATCAGT
1613 TTGGAATTCACATTTTTGTTTTTAAAGTTTTAGGTTGTTTTTTTTTGGTTTTGTTTTGTTG
1673 TTGTTTTGTTTTGTTTTTGTGTTTTTCTTTTTTAAAGTTCTGTGGGGAACTTTGGG
1733 GTTAATCAAAGGATGTAGTCCGTGGTAGACCAGAGAGTAAGTATTTGATCCTTTGG
1793 GGTGTGGAAAATGTACCCAGGAAGCTGTGTGAAGGAGTTCTGTGACAGTGAACACTTTC
1853 GCTTTCTGACACCTCATCCTGCTGTACGACTCCAGGATTTGGATTGGATTTCCTAAAT

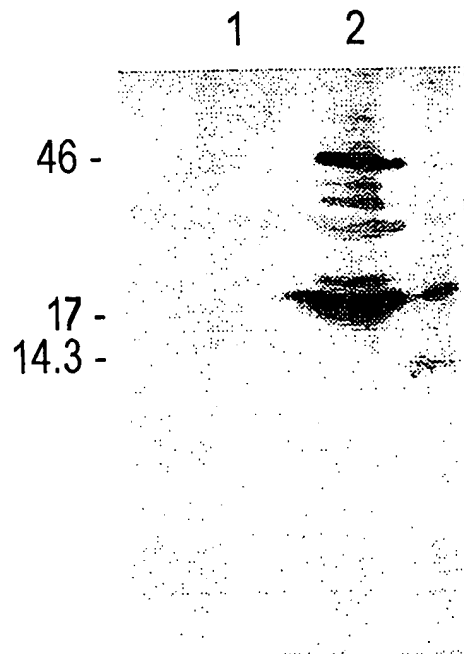
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FIG. 3A



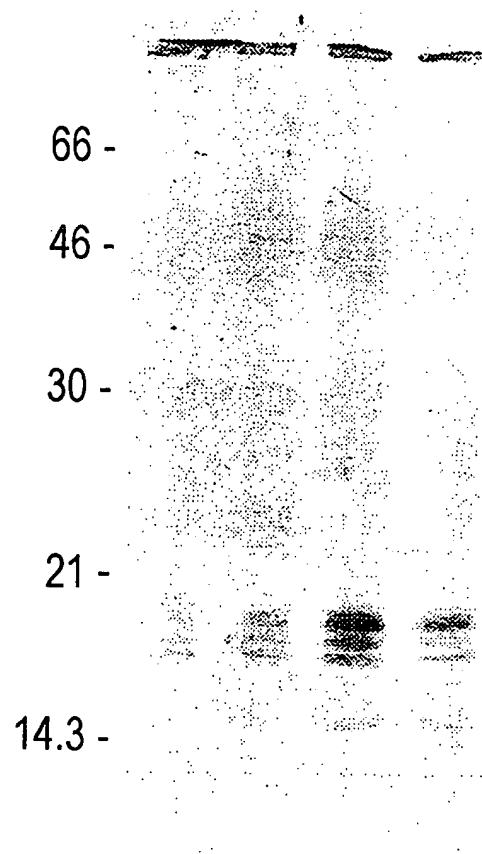
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FIG. 3B



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FIG. 3C 1 2 3 4



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GILR	L	K	E	Q	I	R	E	L	L	E	K	N	S	Q	L	E	R	E	N	T	L	L	K	T	L	A
TSC-22	L	K	E	Q	I	K	E	L	I	E	K	N	S	Q	L	E	Q	E	N	D	L	L	K	T	L	A
GCN4	L	E	D	K	V	E	E	L	L	S	K	N	Y	H	L	E	N	E	V	A	R	L	K	K	L	V
CREB	L	E	N	R	V	A	V	L	E	N	Q	N	K	T	L	I	E	E	L	K	A	L	K	D	L	Y
CREM	L	E	N	R	V	A	V	L	E	N	Q	N	K	T	L	I	E	E	L	K	A	L	K	D	L	Y
c-jun	L	E	E	K	V	K	T	L	K	A	Q	N	S	E	L	A	S	T	A	N	M	L	R	E	Q	V

FIG. 4

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FIG. 5A

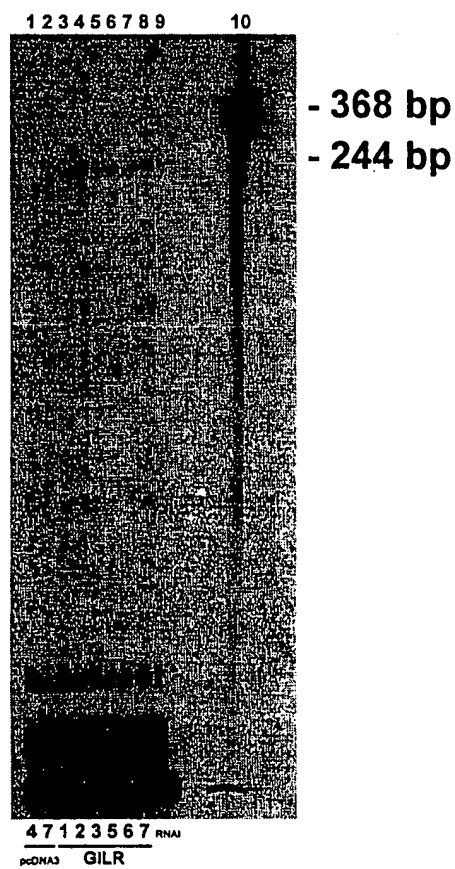


FIG. 5B

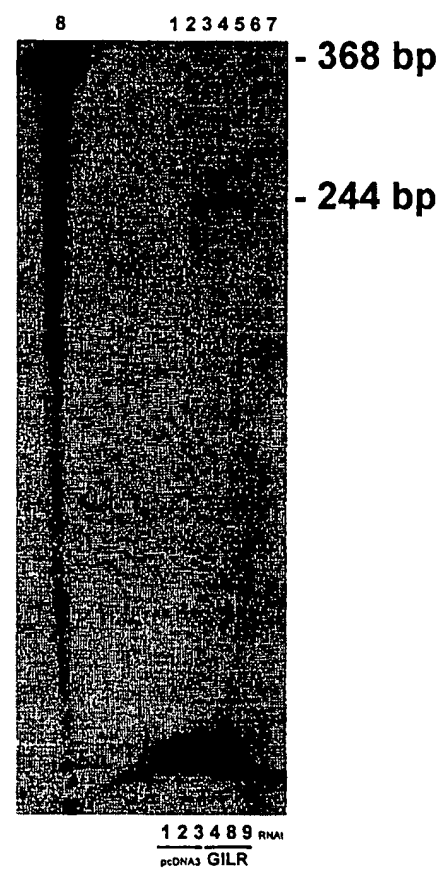
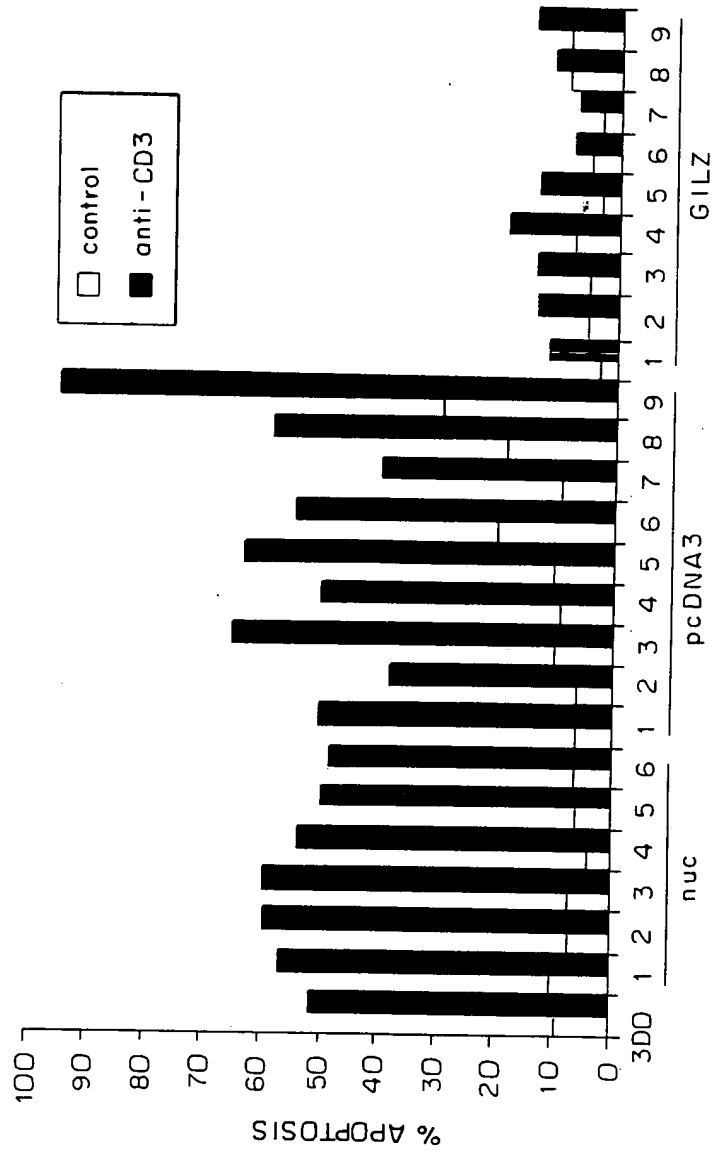


FIG. 5C



FIG. 6



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FIG. 7A

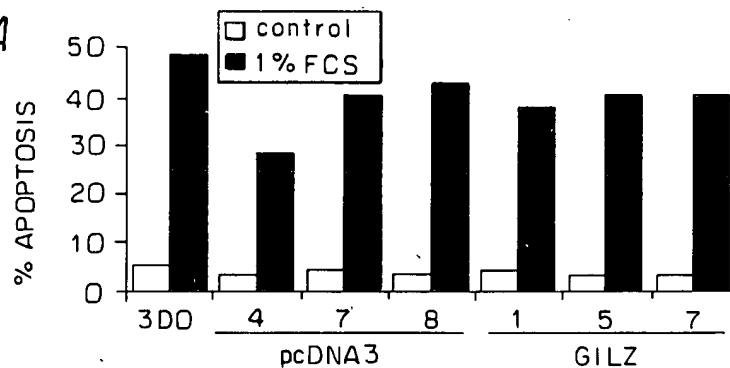


FIG. 7B

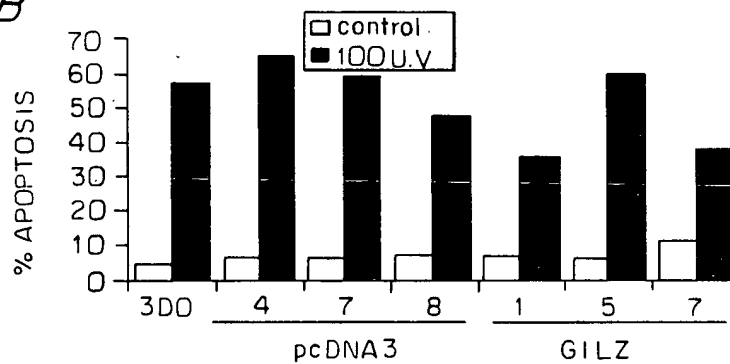


FIG. 7C

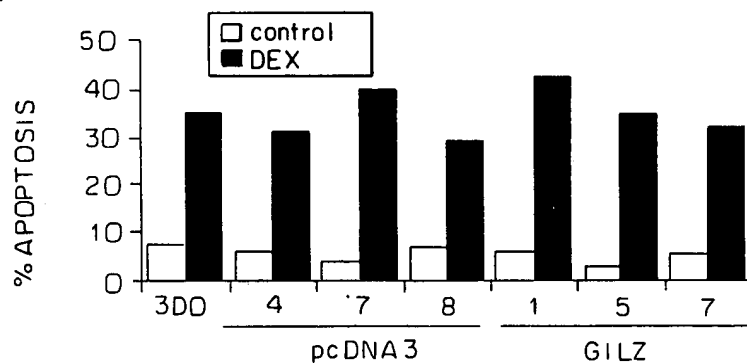
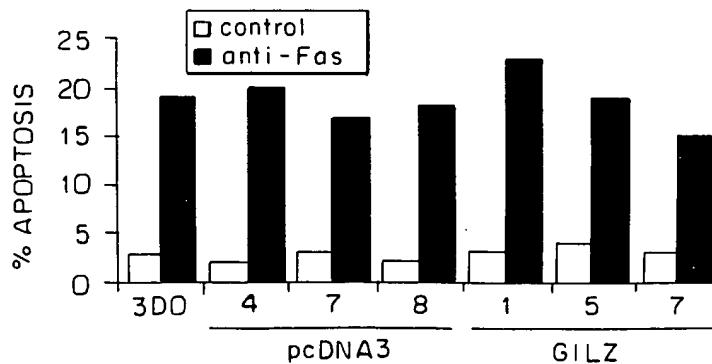


FIG. 7D



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FIG. 8A

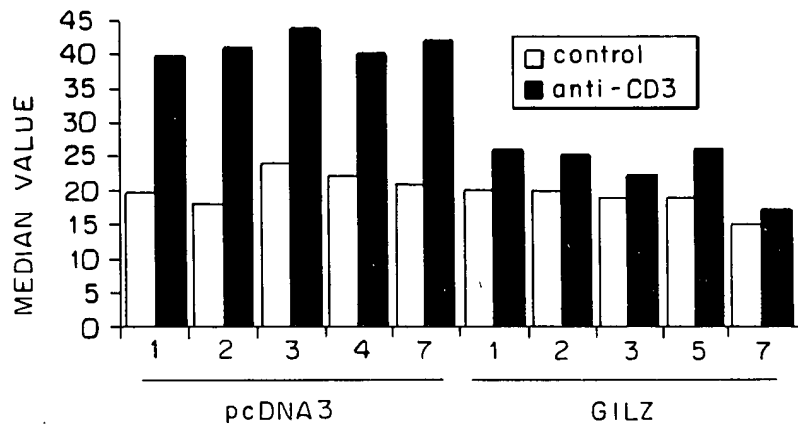
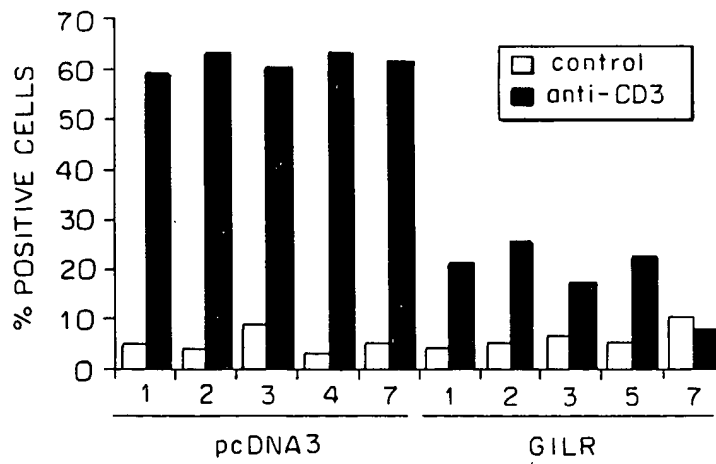


FIG. 8B



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FIG. 9A

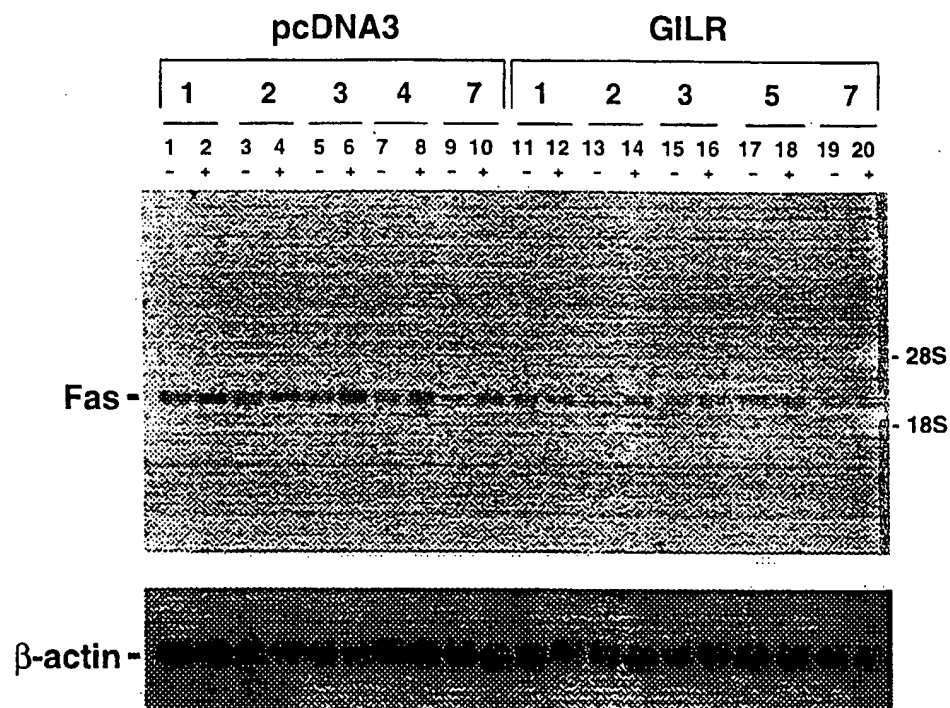


FIG. 9B

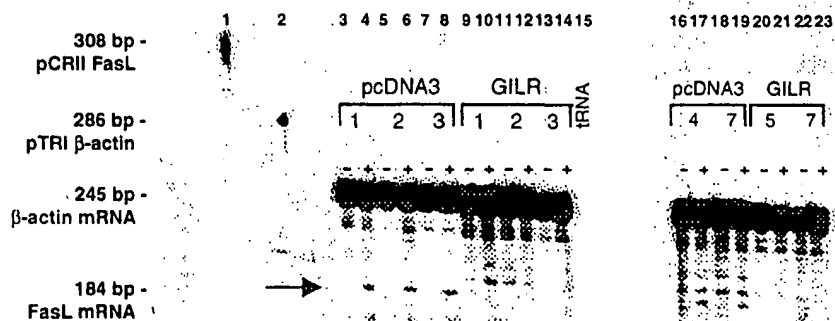


FIG. 10A

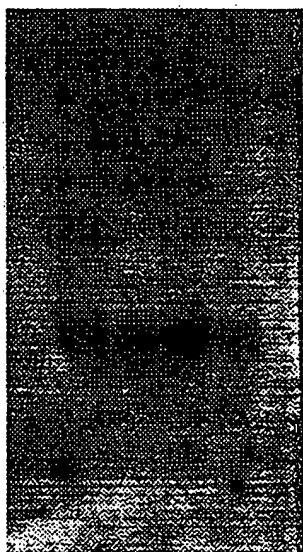


FIG. 10B

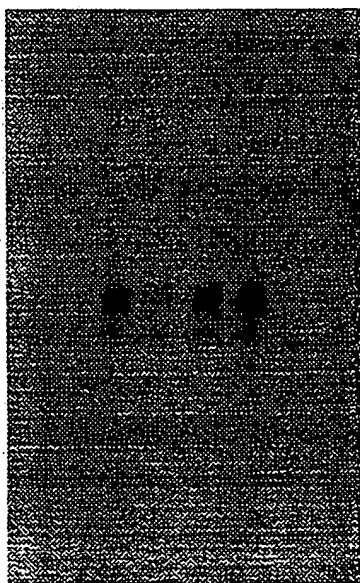


FIG. 11A

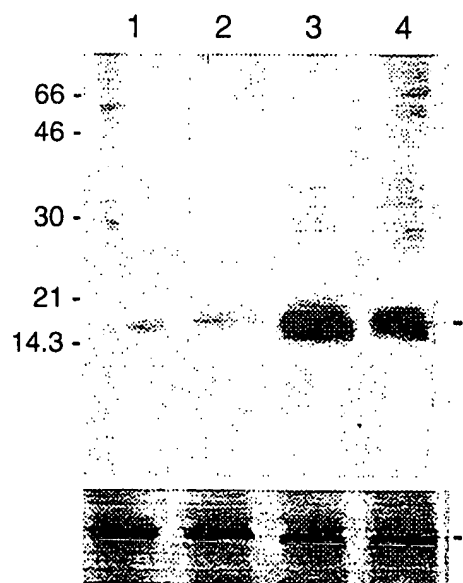
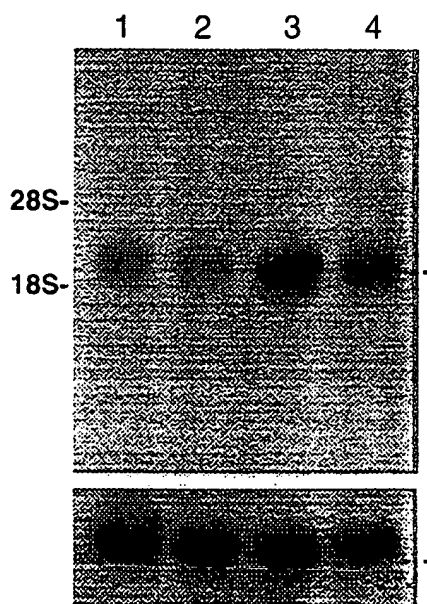


FIG. 11B



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FIG. 12A

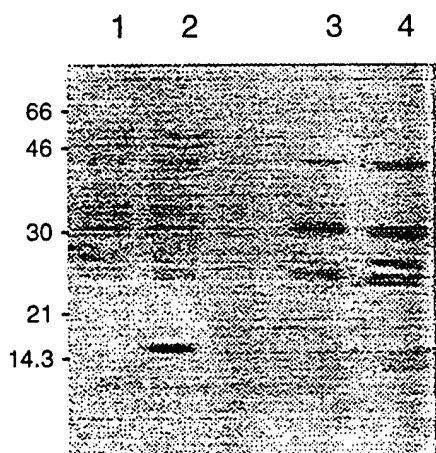
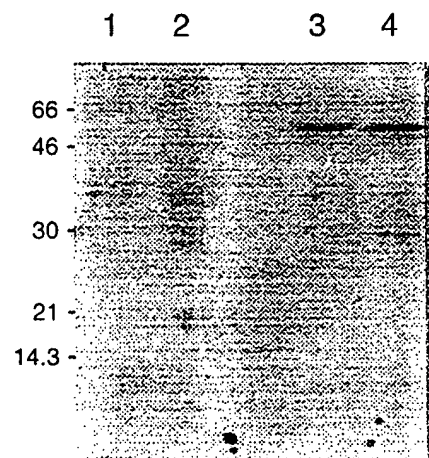


FIG. 12B



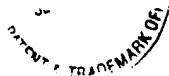


FIG. 13

1 AATTCGGGGGCGGTGGAGTTTGTGACATACGAGGTGACACCCCTCGAGTCACTTCCCTTC
61 AACTCCAGCTGGAGCGCCTGCTTGGCTTTGGGTTTCGTTCTGCAGCCTTCGCCCCGCTCCT
121 AGCCTCAGGGCCGGACTCCAGCGCAGAGCCCAGCCAGCGCAGCCTGCCAGCAGCCACCC
181 AGCCGCCCAGCCGCCCAGCCCCGACGAAACCCGCCCAGAGCTTCCTAGCAGCCCGAGCC
241 ATGAACACCGAAATGTATCAGACCCCATGGAGGTGGCGGTCTACCAGCTGCACAAATTC
MetAsnThrGluMetTyrGlnThrProMetGluValAlaValTyrGlnLeuHisAsnPhe
301 TCCATCTCCTTCTTCTCTCTGCTTGGAGGGGATGTGGTTTCCGTTAAGCTGGACAAC
SerIleSerPhePheSerSerLeuLeuGlyGlyAspValValSerValLysLeuAspAsn
361 AGTGCCTCCGGAGCCAGCGTGGTGGCCATAGACAACAAGATCGAACAGGCCATGGATCTG
SerAlaSerGlyAlaSerValValAlaIleAspAsnLysIleAspGlnAlaMetAspLeu
421 GTGAAGAATCATCTGATGTATGCTGTGAGAGAGGAGGTGGAGATCCTGAAGGAGCAGATC
ValLysAsnHisLeuMetTyrAlaValArgGluGluValGluIleLeuLysGluGlnIle
481 CGAGAGCTGGTGGAGAAGAACTCCAGCTAGAGCGTGAGAACACCCCTGTTGAAGACCCTG
ArgGluLeuValGluLysAsnSerGlnLeuGluArgGluAsnThrLeuLeuLysThrLeu
541 GCAAGCCCAGAGCAGCTGGAGAAGTTCCAGTCTGTCTGAGCCCTGAAGAGCCAGCTCCC
AlaSerProGluGlnLeuGluLysPheGlnSerCysLeuSerProGluGluProAlaPro
601 GAATCCCCACAAGTGCCCGAGGCCCTGGTGGTTCTGCGGTGTAAAGTGGCTCTGTCTCA
GluSerProGlnValProGluAlaProGlyGlySerAlaVal *
661 GGGTGGGCAGAGCCACTAAACTTGTTTTACCTAGTTCTTTCCAGTTTGTTTTGGCTCCC
721 CAAGCATCATCTCAGGAGAGAACTTTACACCTAGCACAGCTGGTGCCAAGAGATGTCCT
781 AAGGACATGGCCACCTGGGTCCACTCCAGCGACAGACCCCTGACAAGAGCAGGTCTCTGG
841 AGGCTGAGTTGCATGGGGCCTAGTAACACCAAGCCAGTGAGCCTCTAATGCTACTGCGCC
901 CTGGGGGCTCCCAGGGCCTGGGCAACTTAGCTGCAACTGGCAAAGGAGAAGGGTAGTTTG
961 AGGTGTGACACCAGTTTGCTCCAGAAAGTTTAAGGGGTCTGTTTCTCATCTCCATGGACA
1021 TCTTCAACAGCTTCACCTGACAACGACTGTTCCCTATGAAGAAGCCACTTGTGTTTTAAGC
1081 AGAGGCAACCTCTCTCTCTCTCTGTTTCGTGAAGGCAGGGGACACAGATGGGAGAGAT
1141 TGAGCCAAAGTCAGCCTTCTGTTGGTTAATATGGTATAATGCATGGCTTGTGTCAGCCC
1201 AGTGTGGGATTACAGCTTTGGGATGACCGCTTACAAAGTTTCTGTTTGGTTAGTATTGGCA
1261 TAGTTTTTCTATATAGCCATAAATGCGTATATATACCCATAGGGCTAGATCTGTATCTTA
1321 GTGTAGCGATGTATACATATACACATCCACCTACATGTTGAAGGGCCTAACAGCCTTGG
1381 GAGTATTGACTGGTCCCTTACCTCTTATGGCTAAGTCTTTGACTGTGTTTACCTTACCAAG
1441 TTGACCCAGTTTGTCTTTTAGGTTAAGTAAGAACTCGAGAGTAAAGGCAAGGAGGGGGC
1501 CAGCCTCTGAATGCGGCCACGGATGCTTGTCTGCAACCCCTTCCCCAGCTGTCCACT
1561 GAAACGTGAAGTCTGTTTGAATGCCAAACCCACCATTCACTGGTGTGACTACATAGA
1621 ATGGGTTGAGAGAAGATCAGTTTGGGCTTCACAGTGTCAATTGAAAAAGCGTTTGTGTT
1681 TGTTTTGAATTATTGTGGAAACTTTCAAGTGAACAGAAGGATGGTGTCTACTGTGGAT
1741 GAGGGATGAACAAGGGGATGGCTTTGATCCAATGGAGCCTGGGAGGTGTGCCAGAAAGC
1801 TTGTCTGTAGCGGGTTTTGTGAGAGTGAACACTTTCCACTTTTGACACCTTATCCTGAT
1861 GTATGGTTCAGGATTTGGATTTTGATTTTCCAAATGTAGCTGAAATTTCAATAAACTT
1921 TGCTCTGTTTTTCTAAAAATAAAAA

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FIG. 14A

1 ...CTGGCTGCTGTGGAGTTTGTGACATACTAGGTGACACCCTTGGAGTC 47
1 aattcgggggcccgtggagtttgtgacatacagagtgacaccccctcgagtc 50
48 ACTTCTCTTCAACTCCAGCTTAGAAGTGCCTGCCTGGCTCAGGGTCTGCA 97
51 acttcccttcaactccagct..ggagcgctgcttggctttgggttcggtt 98
98 CTGCAGCCT.....ACTCCTTGCTTCAGGGCCTGACTGCAACGCCAAA 140
99 ctgcagccttcgccccgctcctagcctcagggccggactccagcgagag 148
141 GCCTATCC.....TATAGCGGCAGCGCCA 164
149 cccagcccagcgagcctgccagcagccacccagcccagcccagcccag 198
165 GCAGCCACTCAAACCAGCCACAGCTCCCCGGCA.ACCGAACCATGAACAC 213
199 ccccgacgaaacccggccagagcttcctagcagcccagccatgaacac 248
214 CGAAATGTATCAGACCCCATGGAGGTGGCGGTCTATCAGCTGCACAATT 263
249 cgaaatgtatcagaccccatggaggtggcggtctaccagctgcacaatt 298
264 TCTCCACCTCCTTCTTTCTTCTCTGCTTGGAGGGGATGTGGTTTCCGTT 313
299 tctccatctccttcttcttctctctgcttggaggggatgtggtttccggtt 348
314 AAAGTGGATAACAGTGCCTCCGGAGCCAGTGTGGTGGCCCTAGACAACAA 363
349 aagctggacaacagtgccctccggagccagcgtggtggccatagacaacaa 398
364 GATTGAGCAGGCCATGGACCTCGTGAAGAACCACCTGATGTACGCTGTGA 413
399 gatcgaacaggccatggatctggtgaagaatcatctgatgtatgctgtga 448
414 GAGAGGAGGTGGAGGTCCTAAAGGAGCAGATTCGTGAGCTGCTTGAGAAG 463
449 gagaggaggtggagatcctgaaggagcagatccgagagctggtggagaag 498
464 AACTCCCAGCTGGAGCGCGAGAACACCCTCCTGAAGACGCTGGCAAGCCC 513
499 aactcccagctagagcgtgagaacaccctgttgaagaccctggcaagccc 548
514 CGAGCAACTGGAAAAGTTCAGTCCCGGCTGAGCCCTGAAGAGCCAGCAC 563
549 agagcagctggagaagttccagtcctgtctgagccctgaagagccagctc 598
564 CTGAAGCCCCAGAAACCCCGGAAACCCCGGAAGCCCCTGGTGGTTCTGCG 613
599 ccgaatcccca.....caagtgcccgaggcccctgggtggttctgcg 639



614	GTGTAAGTGGCTCTGTCCTTAGGGTGGGCAGAGCCAC..ATCTTGTCTCTA	661
640	gtgtaagtggctctgtcctcaggggtgggcagagccactaaactgtttta	689
662	CCTAGTTCCTTTCCAGTTTGTTTTGGCTCCCAAGGGTCATCTCATGTGG	711
690	cctagttcctttccagtttgtttttggctccccaagcatcatctcacgagg	739
712	AGAAGCTTTACACCTAACATAGCTGGTGCCAAGAGATGTCCCAAGGACATG	761
740	agaactttacacctagcacagctgggtgccaagagatgtcctaaggacatg	789
762	CCCATCTGGGTCCACTCCAGTGACAGACCCCTGACAAAGAGCAGGTCTCT	811
790	gccacctgggtccactccagcgacagacccctgac.aagagcaggtctct	838
812	GGAGACTAAGTTGCATGGGGCCTAGTAACACCAAGCCAGTGAGCCTGTCG	861
839	ggaggctgagttgcatggggcctagtaacaccaagccagtgagcctctaa	888
862	TGTCACCGGGCCCTGGGGGCTCCCAGGG.CTGGGCAACTTAGTTACAGCT	910
889	tgctactgcgccctgggggctcccagggcctgggcaacttagctgcaact	938
911	GACCAAGGAGAAAGTAGTTTTGAGATGTGATGCCAGTGTGCTCCAGAAAG	960
939	ggcaaaggagaagggtagtttgaggtgtgacaccagtttgctccagaaag	988
961	TGTAAGGGGTCTGTTTTTCATTTCCATGGACATCTTCCACAGCTTCACCT	1010
989	tttaaggggtctgtttctcatctccatggacatcttcaacagcttcacct	1038
1011	GACAATGACTGTTCCCTATGAAGAAGCCACTTGTGTTCTAAGCAGAAGCAA	1060
1039	gacaacgactgttcctatgaagaagccacttggtgttttaagcagaggcaa	1088
1061	CCTCTCTCTTCTTCTCTGTCTTTTCCAGGCAGGGG.CAGAGATGGGAGA	1109
1089	cctctctcttc.tcctctgttctgtgaaggcaggggacacagatgggaga	1137
1110	GATTGAGCCAAATGAGCCTTCTGTTGGTTAATACTGTATAATGCATGGCT	1159
1138	gattgagccaagtgcagccttctgttgggttaatatggtataatgcatggct	1187
1160	TTGTGCACAGCCCAGTGTGGGGTTACAGCTTTGGGATGACTGCTTATAAA	1209
1188	ttgtgcacagcccagtggtgggattacagctttgggatgaccgcttacaaa	1237
1210	GTTCTGTTTGGTTAGTATTGGCATCGTTTTTCTATATAGCCAT.AATGCG	1258
1238	gttctgtttggttagattggcatagttttctatatagccataaatgcg	1287
1259	TATATATACCCATAGGGCTAGATCTATATCTTAGGGTAGTGATGTATACA	1308
1288	tatatatacccatagggctagatctgtatcttagtgtagcagatgtataca	1337

ATTN: TRADEMARK OFF.

FIG. 14C

1309 TATACACATACACCTACATGTTGAAGGGCCTAACCCAGCTTTGGGAGTACT 1358
||||||| ||||||||| ||||||||| ||||||||| ||||||||| ||
1338 tatacacatccacctacatgttgaagggcctaaccagccttgggagtatt 1387
1359 GACTGGTCTCTTATCTCTTAAAGCTAAGTTTTTACTGTGCTAATTTACC 1408
||||||| ||||| ||||| ||||||| ||||||||| ||||||||| ||
1388 gactggtcccttacctcttatggctaagtccttgactgtgttcatttacc 1437
1409 AAATTGATCCAGTTTGTCTTTAGATTAAATAAG.ACTCGATATGAGGGA 1457
|| ||||| ||||||||| ||||| ||||| ||||| ||||| ||||| ||
1438 aagttgaccagtttgtcttttaggttaagtaagaactcgagagtaaagg 1487
1458 GGGAGGGGAAGACCAGCCTCACAAATGCGGCCACAGATGCCTTGCTGCTGC 1507
| || | ||||||| ||||||||| ||||||||| ||||||||| ||
1488 caaggaggggggcccagcctctgaatgcggccacggatgccttgctgtgc 1537
1508 AGTCC.TCCCTGATCTGTCCACTGAAGACATGAAGTCCTCTTTTGAATGC 1556
| || || || || ||||||||| || ||||||||| ||||||||| ||
1538 aaccctttccccagctgtccactgaa.acgtgaagtcctgttttgaatgc 1586
1557 CAAACCCACCATTTCATTGGTGCTGACTACATAGAATGGGGTTGAGAGAAG 1606
||||||||| ||||||||| ||||||||| ||||||||| ||||||||| ||
1587 caaaccaccatttactggtgctgactacatagaat.gggttgagagaag 1635
1607 ATCAGTTTGGACTTCACATTTTGTTTTAAGTTTGTAGTTTGTTTTTTTT 1656
||||||||| ||||||| || ||||| || ||||| || ||||| ||
1636 atcagtttgggcttcacagtgtcatTTgaa.....aaagcgttttTgttt 1680
1657 GGTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTCTTTT 1706
||||||| || |||||
1681 tgttttgaattattgt..... 1696
1707 TTAAGTTCTTGTGGGGAACCTTTGGGGTTAATCAAAGGATGTAGTCCTGT 1756
|| ||||||| || || || ||||||| |||||
1697ggaaaactttcaagtgaacagaaggatggtgtcctac 1733
1757 GGTAGACCAG.....AGGAGTAACTAGTTTGTATCCTTTGGGGTGTGGA 1800
|| || || || || || || || || || || || || || || ||
1734 tgtggatgagggatgaacaaggggatggccttgatccaatggagcctggg 1783
1801 AAATGTACCCAGGAAGCTTGTGT.AAGGAGGTTCTGTGACAGTGAACACT 1849
| ||| ||||| ||||||| || || ||||| ||||| ||||||| ||
1784 aggtgtgccagaaagcttgtctgtagcgggttttTgtgagagtgaacact 1833
1850 TTCCACTTTCTGACACCTCATCTGCTGTACGACTCCAGGATTTGGATT 1899
||||||||| ||||||| ||||||| ||||| ||||| ||||||||| ||
1834 ttccactttttgacaccttatcctgatgtatggttccaggatttgattt 1883
1900 GGATTTTTCAAATGTAGCTTGAAATTTCAATAAACTTTGCTCCTTTTCT 1949
||||||| ||||||||| ||||||||| ||||||||| ||||| |||||
1884 tgatTTTccaaatgtagcttgaaatttcaataaaactttgctctgtttttc 1933
1950 AAAAATAAAAAAAAAAAAAAAAAA 1972
||||| |||||
1934 taaaaaataaaaa..... 1946



FIG. 15

mG 1 MNTEMYQTPMEVAVYQLHNFSTSFSSLLGGDVSVKLDNSASGASVVAL 50

hG 1 MNTEMYQTPMEVAVYQLHNFSTSFSSLLGGDVSVKLDNSASGASVVAI 50
=====

hT 2 KSQWCRPVAMDLGVYQLRHFSISFLSSLLGTENASVRLDNSSSGASVVAI 51
=====

mG 51 DNKIEQAMDVLVKNHLMYAVREEVEVLKEQIRELLEKNSQLERENTLLKTL 100

hG 51 DNKIEQAMDVLVKNHLMYAVREEVEILKEQIRELVEKNSQLERENTLLKTL 100
=====

hT 52 DNKIEQAMDVLVKSHLMYAVREEVEVLKEQIKELIEKNSQLEQENLLKTL 101
=====

hD 1 MDLVKNHLMYAVREEVEILKEQIRELVEKNSQLERENTLLKTL 43
=====

mG 101 ASPEQLEKFQSRLSPEEPAPEAPETPETPEAPGGS AV* 137

hG 101 ASPEQLEKFQSCLSPEEPAPES...PQVPEAPGGS AV* 134
=====

hT 102 ASPEQLAQFQAQLQTGSPPTTQPQGTTPPAQPASQSGPTA* 144
=====

hD 44 ASPEQLEKFQSCLSPEEPAPES...PQVPEAPGGS AV* 77
=====

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- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
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- ☒ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
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